

# NITE-TIMES NEWS

## CHICAGO AREA TIMEX USERS GROUP

Chicago Area Timex Users Group  
Volume 6, Number 1

Downers Grove, Illinois  
January/February 1992

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### C.A.T.U.G. CLUB OFFICERS

Here is the list of 1991 club officers and how to contact them. The club has two strong SIGS, SPECTRUM/TS2068 and QL. If you have questions about either of these fine machines or even the ZX81/TS1000/TS1500 call one of the officers. C=312, S=708.

POSITION	NAME	PHONE	PRIMARY FUNCTION
President	Nazir Pashtoon	S439-1679	The buck stops here...
Vice-President	Steve Cooper	S968-3553	Meeting Planning, etc.
Secretary	Al Feng	S971-0495	Records and Reporting
Treasurer	Frank Mills	S544-1918	Dues and Purchasing
Editor	Bob Swoger	S576-8068	Newsletter, BBS, etc.

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NITE-TIMES NEWS

Volume VI, Number 1

1

January/February 1992

## Nite-Times Information

The Nite-Times News is the newsletter of the Chicago Area Timex Users Group. For an annual fee of \$12.00 you can become a CATUG member with full membership privileges. Send your dues to:

**CATUG TREASURER FRANK MILLS**  
417 S 47th AVE  
BELLWOOD IL 60104

The Chicago Area Timex Users Group is pleased to exchange newsletters with other Timex and Sinclair supporting users groups at no charge. Send all newsletter requests to:

**CATUG EDITOR BOB SWOGER**  
613 PARKSIDE CIRCLE  
STREAMWOOD IL 60107-1647

If you desire to reprint any articles that appear here, please provide credit to the author and this newsletter.

We encourage your user group to copy this newsletter and distribute it at your regular meetings to your members free of any charge as we believe that this will encourage better meeting attendance. If you are a user group that feels as we do, please let us know in your newsletter so that we might do this for our members and keep our attendance up.

Articles originating from our group may be downloaded from our BBS and reprinted.

### CONTRIBUTORS TO THIS ISSUE

Andre Baune  
John Donaldson  
Al Feng  
Marie Kendoll  
Frank Mills  
Bob Swoger, K9WVY

### CLUB MEETINGS

The Chicago Area Timex Users Group meets on the THIRD Saturday of each month at the home of our meeting coordinator Steve Cooper in Downers Grove,

Illinois from 1:00 to 5:00 PM. Steve's home is lovingly called the CLUB HOUSE and is located at 1300 Maple Street in Downers Grove just 2 blocks southwest of the Downers Grove Public Library. Steve should be contacted evenings at 708/968-3553. to confirm the meeting schedule.

When visiting be careful of the Dutch Doooooooooooooooooooo.....

### TREASURY NOTES

Our balance as of March 1, 1992 is \$294.55. Our current paid membership stands at 14.

Frank Mills, Treasurer  
Chicago Area Timex Users Group

### SECRETARY'S NOTEPAD

JANUARY 18, 1992

Downers Grove, Jan. 18, 1992 --  
The meeting was called to order at 3:03 PM with nine members present.

**NOTICE to ALL:** The annual ritual of Dues Collection (\$12) has once again befallen us. Please take special notice -- checks should now be written payable to:

**Frank Mills CATUG Treasurer**

And now, some good news. Jay Shepard sent Steve Cooper a "Christmas present": a printer interface to use with his JLO. Jay's a nice guy, isn't he?

With the compliments of his long time friend Wayne White, Bob Swoger brought five keyboards suitable for use with ZX81/TS1000/TS2068 computers, or whatever. Thanks, Wayne!

As promised, Bob demoed the 1 MEG printer buffer acquired from Bob Miller of **Technologic Systems** he told us about at the last meeting. The unit is remarkably compact. It was installed on Steves TS2068 just ahead of the printer. Bob sent a 4 page TASWORD 2 document to

the printer and Steves TS2068 was ready to use again in just under 2 seconds! See the REVIEW in the December issue of **NICE-TIMES NEWS** for details.

There was discussion about the value of QUANTA -- and its newsletter in particular -- to American subscribers. Al Feng [QUANTA member from 1986-1991] expressed a strong concern that QUANTA has taken its five-dozen (plus-or-minus) North American members for granted: Damn colonists, or something -- not worth the effort for proper representation. Al said he was "voting" with his dollars, and NOT renewing his QUANTA membership for 1992.

The consensus opinion is that while QUANTA may be a valuable source of information for hardware news, the circumstances of North American distribution of its software library left a lot to be desired.

Al differed with regard to QUANTA's value by noting that introduction of the MINERVA code upgrade to QDOS (along with various code revisions) was the only newsworthy information he had gleaned from the QUANTA newsletter in the past couple of years. Al feels that the "chatter" in QUANTA is mostly parochial news that is dated or irrelevant to people not living south of Hadrian's Wall.

With the advent of NESQLUG and QLR (Bob Dyl's QL REPORT) complementing the CATS Group and Newsletter, Al feels that QUANTA is no longer necessary for the North American QL user for relevant news.

Nazir Pashtoon differed with both points and will be buying a membership simply because he feels he will not be able to get some of the QL information anywhere else (with the fluctuating value of the dollar to the British Pound, however, CATUG will subsidize any amount over \$30.00).

Bob Swoger brought in three

RAINBOW magazines, each describing a 68000 based machine in IBM type hardware. Since Pashtoon, Firestone and others in Europe feel that it may be time to move the QL to a more readily available hardware platform, Swoger suggested that instead of re-inventing the wheel, one of these three vendors, Frank Hogg Laboratory, Inc., DELMAR or IMS, would get a bigger market share in the market place, and therefore be able to survive longer, if the QL community picked one of these machines already in production. Cost to the QL community would also be significantly less to migrate to an existing machine. Though Atari and Amiga are both 68000 machines, neither uses IBM hardware. The DELMAR machine uses a 68000 while the FHL TOMCAT TC-70 and the IMS MM-1 use the 68070. Wake up out there, QL users!

Grant Thomas, a too-distant member, has problems with his QL's keyboard matrix, so he sent it to Bob along with its "Dan Elliott" power supply. It was a first look at the very robust power supply which looks capable of outlasting most of us! It will be checked out and/or replaced before being returned to Grant.

NB: Grant's QL was checked by Al Feng, who expedited return by substituting his last, good matrix for Grant's ailing one. Grant's QL was then returned by courier, but subsequently found its way back to CATUG as Grant encountered a non-replicable problem (i.e., NOTHING wrong could be found with the QL at the February CATUG meeting). Consequently, Grant's QL has been returned to him with the hopes that whatever gremlins were plaguing his QL will find another home.

We await further communication on this matter.

Due to circumstances, Al is still short a matrix AFTER the February meeting. It will be interesting to see how he manages to produce the February meeting Minutes! Good luck, Al.

Bob Swoger announced that he will be exchanging **Nite-Times News** with a new newsletter called **ZX91** which is written on a ZX81 (evidence that the old ZX81 is 10 years old and that it has NOT been laid to rest). A copy was available for us to peruse and we wish to compliment the author, Andre Baune of Chateauguay, Quebec, Canada, for a job well done. A suggestion to Andre: If you haven't researched the work done by Fred Nachbauer and Wilf Rigger to enhance the ZX81, you should.

For those who might have missed it, Bob points to a neat mail merge program for the TS2068 in the September/October 1991 issue of the **Nite-Times News**. Also another program which will capture the screen (pixel by pixel) for the TS2068 in the November/December 1991 issue.

Elections were held with the result that Nazir Pashtoon returns as President, Steve Cooper is again Vice President, Al Feng has reluctantly become Secretary, and Frank Mills has graciously assumed the duties of the Treasurer. Bob Swoger continues as Editor of **Nite-Times News** as it goes into its SIXTH year.

John Donaldson retired as the Secretary due to the pressure of his other activities. It seems that his retirement years find him busier than ever. He remains full of interest in anything QL, and will be in attendance at most meetings. Frank Mills became our treasurer.

The future issue of **Nite-Times News** scheduled to contain an updated list of members.

The meeting was closed at 4:02 PM.

John Donaldson, Secretary  
Chicago Area Timex Users Group

FEBRUARY 22, 1992

CAT MINTS  
by Al Feng

*I am submitting the following correspondence written by an observer to our February 22nd meeting in lieu of what normally passes as the CATug MINuTes.*

*Our observer, Flynn O'Feenix, has agreed to allow us to borrow his correspondence since he feels that I was not very attentive during the meeting; additionally, Flynn feels that his thoughts are much more interesting than anything I might have to offer! A.F.*

Dear Mum,

Having treble righting. Pull light bad. Very dark situation -- To tell the truth, can't ya do nothing!?! Situation iffy. Call Dutch, send seeds & bulbs (full spectrum, okay).

Deliver hay to lead eaters of LE MONDE (verse stay?):

DEWS ON THE GRAVE. STOP.  
ILL NOISE. STOP.  
SICK, SO FIE (FEH!). STOP.  
WONDER. STOP.  
FIE (FEH, AGAIN!). STOP.  
ESTATIA. STOP.  
UMBRAGE. STOP.  
ANDULUSIA. STOP.  
BOB IN FLA. STOP.  
MINGLES BY SEA. STOP.  
SQUIRRELS REVEAL. STOP.  
DEAD SECRETS. STOP.  
WEAK WAIT. STOP.  
MOON IN VIRGO. STOP.  
STEVE STILL SCRAMBLES. STOP.  
EGG ON FACE. STOP.  
JELLO RENDERED BRAIN. STOP.  
ALL CAPUT. STOP.  
ON ARRIVAL. STOP.  
FEBMONTH TWOTWO. STOP.  
ALL SHOW A. STOP.  
MEMORY FREE. STOP.  
PALACE NINE. STOP.  
YES, SIR. STOP.  
MONEY TALKS. STOP.



BLAH, BLAH, BLAH. STOP.  
PAPER PASSES. STOP.  
NEXT MONTH. STOP.  
BI-COL DEMO. STOP.  
MORE PROMISED. STOP.  
STOP.

Am well. Sean fine, too!

Your loving son,  
Flynn O'Feenix

NB: As some may note, Flynn is a fan of *FINNEGANS WAKE* authored by James Joyce. Flynn tells me that if you are not familiar with this style of writing and don't fully understand the telegraphed message, he will send you a "translation" if you send a SASE envelope to him care of yours truly, Al Feng.

An important bylaw amendment was proposed which Flynn failed to mention. A motion to make the "club house" a SMOKE FREE ZONE was made, and as Flynn noted, I wasn't paying enough attention to let you know whose motion it was. The few individuals who do smoke were either caught off guard or were in agreement with the concept as no 'nay' votes were cast. Therefore, for the record: the vote was unanimous.

Could Bob Gilder, Alvon Brandon or any other person from the LIST group (or, elsewhere) with such knowledge, tell us in the isolated Midwest and elsewhere in the lower 48 states, Alaska, Hawaii, Guam, and Puerto Rico with greater specificity how a GOLD CARD can be acquired for the measly sum of \$350 (US) as indicated in the January 1992 issue of LISTing?

What a teaser to simply state that \$350 is the current price for a GOLD CARD. From whom?

Having said that, we await Hugh Howie's informative recounting of his GOLD CARD escapades.

Personally, I feel the QL's NETWORKing capabilities are an important function.

COWO-bunga?! I guess that I've had what might be called a 'Clark Kent QL' for the past several years. Until this past month when my QL, et al, went into a "salvaged" SPERRY PC case with a dinky 100 watt PS, my QL motherboard and various interfaces had been NESTLED (that's a pun, if you didn't catch it) in an AT-case with a robust 230 watt PS.

Though no CATUG members have expressed an interest, if enough people from other user groups directly express an interest, I will detail how to cobble up your own 'SuperQL' so you can save the expense of 2290 SF (\$1500!) mentioned by Tim Swenson in the February issue of the CATS Newsletter. The "final" cost will be dependent on what you already have, and what you want to end up with (that is, \$50-1,000).

Yes, you too can do it right in the comfort of your own home in just a few nights (months?!) from easily accessible, generic [PC-CLONE] parts in a series of articles (okay, the 64-way may be a problem; but, I think this may be available from **American Design Components**; and, if you opt for a "full tower" case, you shouldn't need it).

If you are willing to spend the time, you don't even need a keyboard interface! You just need to know how to follow directions and solder.

No, you don't need a GOLD CARD for this project. *Why try to run when you can still crawl?*

Finally, many thanks to Flynn for pinch hitting for me while I await my replacement keyboard matrix [I can't begin to tell you how tedious it is to use a piece of wire on connectors J11 and J12 of the QL motherboard].

HAPPY TRAILS,  
AND COMPUTING, TO YOU!

Al Feng, Secretary  
Chicago Area Timex Users Group

## INPUT/OUTPUT

-----  
Andre Baune writes:

Thank you for your two well edited newsletters. The best of the newsletters of all the clubs I have received. Many thanks. It is people like you that will keep the Sinclair Timex computer going strong. [He must not have received Sink-Link yet! Ed.]

..... I will spread your name around and I hope you will do the same for my ZX-91.

You brought sunshine to my day. I hope my ZX-91 #2 will do the same for you. [What can I say? Indeed, ZX-91 made us all feel good and caused us all to think again about the capabilities of our fine ZX machines. Really, I feel that your newsletter is more plesent to read. We had all forgotten how nice pictures in text can be. Ed.]

Marie Kendoll phoned:

...everthing on the LogiCall disk you sent to Rod worked except VU-CALC. When I enter #C to re-do the calculations the program crashes! ...Also, can I print my VU-CALC files out to my large printer using your version of VU-CALC? [Sorry, Marie, for the inconvenience caused by my bugged VU-CALC driver for LogiCall. The new driver is in the mail. Please copy it OVER the sick VU-CALC previously given to you and ROD. As a result of your request to print out VU-CALC files to a large printer, I was able to generate two utilities for the Sinclair community and two articles for our newsletters! Thanks, Ed.]

## FROM THE EDITORS DISK

-----  
We have been asked at times if we have ceased publishing newsletters. This is no doubt due to the fact that we decided to save postage after the last postal increase and reduced mailings of our 6 yearly issues (6 doubled our effective article supply) to 3 times a year. We put our newsletters

into real envelopes two at a time and sent them to their destinations in better shape.

We have evaluated the argument of Rod Gowen that one function of a newsletter should be to let people know when and where the next meeting is be and fund that since our meeting place never changes except on emergency notice and the meeting time is always the third Saturday of every month, that this argument goes out the window.

As a result of the decision made over a year ago, our club saved \$80 in mailings and didn't have to raise its dues from \$12. Also, the mailing was made a little easier on our Editor. Thanks, guys ....

====GATOR====

## GATOR's TWISTED PAIR

-----  
!!! R E M E M B E R !!!  
We now have a 24 hour BBS and encourage you to exchange mail and contribute to the Download Section. Use it and have fun!

The board has become semi-private at this time. Please call Bob Swoger at 708/576-8068 for information as to how to log on.

Bob Swoger, SYSOP  
Chicago Area Timex Users Group

## ITEMS FOR SALE THROUGH THE CLUB

-----  
It has come to our attention that some LarKen Users are using something less than Version 3 firmware. The club will supply updated EPROMs, SYSTEM DISKS, and MANUALS for just \$5 which includes shipping and handling, free if ordered with LogiCall or Spectrum ROM.

=====

If you are a LarKen LK-DOS owner and would like a SPECTRUM V2 kit for your system we will supply an EPROM, socket and 74HCT32 for \$12 which includes

shipping and handling. The install instructions are in your LarKen manual. We shall not be responsible for your install job. AERCO owners need only the SPECTRUM EPROM for \$10 \$10 is forwarded to LarKen.

If you have a mismatch between you LarKen DOS EPROM and your Western Digital Controller chip, we will send you the correct one for free on behalf of our friends Rod Gowen of RMG and Larry Kenny of LarKen. You should be using L3 EPROMs with WD1770 controller chips or L3F EPROMs with WD1772 controller chips. Check it out! Call in requests to Bob Swoger at W708-576-8068 H708-837-7957

### SPECIAL DEALS AND BUYS

NAP\_Ware (Nazir A. Pashtoon's new endeavor) announces the availability of all Timex or QL PAL (Programmable Array Logic) chips. If interested, call him evenings on 708-439-1679.

LogiCall Integrated Software Ensemble easy operating system for LKDOS in both TS2068 and Spectrum modes includes LogiCall 4.8 TASWORD TWO V2.7, VU-CALC V1.3, VU-FILE and MTERM2 Drivers modified for LogiCall, DISKS.B1 TAPES.B1 steprt.B1 HEADER.BT (tape header reader by Nazir Pashtoon) FORMAT.B MOVE.BL and more all on 2 SSDD disks for \$5. You must specify your LK-DOS EPROM version. If you already have a copy you are encouraged to distribute copies to other LarKen LK-DOS users for as you see by the price we are not in the business of making money on it, just making LarKen's LK-DOS even better!

So you like to fly? The 747 Flight Simulator for Spectrum by Derek Ashton of DACC sold over 40K copies in EUROPE. Requires Spectrum Emulator. At this time supplied on LarKen SSDD disk only for \$10 which goes to Derek Ashton, now working at MOTOROLA with Bob Swoger. Call in requests to Bob at W708-576-8068 H708-837-7957

Want to try MS-DOS first before you switch? Try QLUmSi DOS, the MS-DOS SIMULATOR on your QL first.

QLuMSi (disk/specify) .....\$15

Try Al's Side-Kick on your QL. It is an Auxillary Operating System (AOS) like LogiCall and can make your life on the QL a lot easier [you may never lust for MS-DOS again!]

QLUSTer (disk/specify) .....\$10

CALL: Al Feng H(708) 971-0495

## ARTICLES

### VC2LP.B1

by  
Bob Swoger

This LarKen/LogiCall utility was recently requested by Marie Kendoll of Point Roberts, Washington to allow her to print out VU-CALC files to her large printer. The program asks you for the name of the VU-CALC file to load and then which column to print as the left-most column. You are permitted to enter columns 1 through 42 only. It then prints out nine columns and 50 rows from the VU-CALC document. The VU-CALC document is left untouched.

The printer is set to the 72 character width and 8 spaces are added to the left margin so that the printout will look just like a Tasword document.

Our next newsletter shall contain a program to enter the nine columns and 50 rows from the VU-CALC document into a TASWORD 2 file.

```
10 REM ---- VC2LP.B1 ----  
    WRITTEN BY ROBERT E. SWOGER  
    1992 V1.2
```

```
20 REM Prints VU-CALC files  
    to a large printer.
```

```
30 CLEAR 44721: LET h=CODE "d"  
: POKE 23658,0: POKE 23728,h  
40 CLS : RANDOMIZE USR h: CAT  
".Cv",
```

```
50 PRINT '"This program prints  
a 9 columnsand 50 rows of a VU  
-CALC file toa large printer. Y
```

ou may select the left-most column. You may Save, Quit or select drives 0-4."

```
60 INPUT "Name of file to print? "; LINE g$
```

```
70 IF g$>="0" AND g$<="4" THEN
  RANDOMIZE USR h: GO TO VAL g$:
  GO TO 40
```

```
80 IF g$="s" OR g$="S" THEN GO
  TO 9990
```

```
90 IF g$="q" OR g$="Q" THEN GO
  TO 9998
```

```
100 RANDOMIZE USR h: LOAD g$+".
  Cv"CODE 44722
```

```
110 IF PEEK 23728<>h THEN PAUSE
  h: GO TO 30
```

```
120 REM R=VU-CALCs 50 ROWS
```

```
130 REM C=VU-CALCs 9 clmn/pg
```

```
140 REM V=VU-CALC doc start-1
```

```
150 REM S=First column to print
```

```
160 REM O=Offset to begin J
```

```
170 LET R=50
```

```
180 LET C=9
```

```
190 LET V=44741
```

```
200 REM Determine start column
```

```
210 INPUT "Start with what column? "; S
```

```
220 IF S<1 OR S>42 THEN GO TO 2
  10
```

```
230 LET O=(S-1)*7
```

```
240 REM SET-UP LP driver
```

```
250 RANDOMIZE USR h: OPEN #3,"L
  P"
```

```
260 RANDOMIZE USR h: POKE 16090
  ,72: REM Printer width
```

```
270 RANDOMIZE USR h: POKE 16094
  ,8: REM Left margin
```

```
280 LPRINT
```

```
290 REM PRINT VU-CALC TO LP
```

```
300 FOR I=V+O TO (V+(50*350))-1
  STEP 350
```

```
310 FOR J=1 TO 63
```

```
320 LPRINT CHR$(PEEK (I+J));
```

```
330 NEXT J
```

```
340 LPRINT
```

```
350 NEXT I
```

```
360 GOTO 9998
```

```
9990 RANDOMIZE USR h: SAVE "VC2L
  P.B1" LINE 10
```

```
9998 RANDOMIZE USR h: LOAD "L.B1
  "
```

### TAX-I-QL TIP

by Al Feng

The matter of Uncle Sam's hand in your pocket should never be too far from your thoughts.

For those who may not be aware, TAX-I-QL (EMSoft) is the most extensive ABACUS/QLSS template one can use on his/her QL.

TAX-I-QL is h-u-g-e spreadsheet template which requires a 256K (minimum) memory expansion. From what I can tell, TAX-I-QL is designed/suitable for the CPA who need to "link" (virtually) ALL of the IRS forms.

Because "individuals" certainly comprise the majority of the users, the extent of the template will appear to be overkill; with, the result being a minor penalty of a seemingly long calculation time. Time is very subjective, and you will find that it is still faster than doing calculations on the forms in tandem with an adding machine or calculator.

Unfortunately, nothing on/for the QL appears to be perfect; and, TAX-I-QL is no exception. But, TAX-I-QL is accessible for modification (but, use caution; and, ALWAYS double check your calculations regardless of the spreadsheet and/or template you are using).

Any "adjustments" to schedules are limited only to your ability to write/modify an Abacus formula.

A minor TAX-I-QL "flaw" is that the template presumes that the data taken from your W-2 forms for "state tax" is an absolute [i.e., that you will NOT deduct more-or-less than the amount(s) withheld]; and, this is reflected in the value transferred to SCHEDULE A.

For example, Illinois residents pay a percentage of the ADJUSTED GROSS INCOME, less two-times (2x) the local real estate tax paid and a "standard" deduction similar to the Federal deduction. As I am only dealing with one state, I can input a simple, linked formula in the appropriate cell in SCHEDULE A:

$(G100 - (2*N13) - 2000) * 0.03$

'G100' is the cell containing the "adjusted gross income" (on the template I have); 'N13' is the cell containing the "real



estate tax" paid; '2000' is the "deduction"- for myself and my wife [this could have been input as "G74 \* 1000" (exemptions x deduction)]; and '0.03' is the current "tax rate" in Illinois.

Obviously (?!), the state income tax rate varies from state to state; and/but, an ASKN/ASKT macro might be incorporated to better quantify the state tax value on SCHEDULE A if you are preparing tax returns from varying states.

Because TAX-I-PC is accessible, its one other "flaw" is that you may eventually decide that you only have to buy a copy for one year; and, then modify it for subsequent years.

HHMmm. Definitely worth buying at least one time. TAX-I-QL (\$24.95) is available from:

EMSOFT  
P.O. Box 8763  
Boston, MA 02114-8763

EMSOFT accepts VISA and MasterCard (w/ surcharge).

HAPPY TRAILS,  
AND COMPUTING,  
TO YOU ...

~~~~~ ADS ~~~~~

To put an AD in the Computer related section of the BBS, put a file in your account with the filename filetype: COMPUTER.ADS !!! Our ADS are free !!!

WANTED: 920303  
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
% SERIAL TO PARALLEL PRINTER %  
% CABLE (QL?) USED %  
%  
% JOHN J. SHEPARD, III %  
% 281 - 130th ST. %  
% OGDEN, IA 50212 %  
% (515) 846-6378 %  
% HAVE ANS. MACHINE %  
%  
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

FOR SALE: ON 920102  
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
TS2068 WITH:  
SPECTRUM ROM SWITCH  
MECHANICAL KEYBOARD  
RESET SWITCH  
SPEAKER ON/OFF SWITCH  
AMPEX COMPOSITE COLOR Monitor  
JLO FDD System with:  
780K Disk Drive cased with:  
power supply  
Centronic Printer Interface  
TS2040 Printer  
Wico Trackball  
TS2050 modems (4)  
EPROM cards one with Mterm II  
Joysticks (2)  
Timex and Spectrum commercial programs 300+  
Disk Drive DSDD 5.25 flaky  
Disk Drive DSQD 3.5 flaky  
Gary Lessenberry  
12 Alleghany Road  
Havelock, NC 28532  
919-444-3895

FOR SALE: ON 920102  
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
128K QL W/ MINERVA 1.66 ROM and  
ENHANCED KEYBOARD .....\$95  
MIRACLE 512K EXPANDERAM (QL) ..  
.....\$125  
SPEEDSCREEN ROM (w/ RAM code on  
1 mdv) .....\$45  
NUCLEON (2 mdv) .....\$15  
INTEGRATED ACCOUNTS (on 3 mdv)  
.....\$45  
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
% ALL ABOVE ITEMS: \$250 %  
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
% ALL PRICES NEGOTIABLE %  
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
CALL: Al Feng H(708) 971-0495

WANTED: ON 911122  
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
Trump Card or other memory  
expansion and/or disk inter-  
face for the QL.  
D. G. Smith, R.415 Stone St.,  
Johnstown, PA 15906.

FOR SALE: ON 911025  
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
FOR SALE: TIMEX 2068, excellent  
condition, \$65.00. Oliger disk  
interface, controller and  
expansion board with manual,  
\$11.00. Both for \$165.00.  
D. G. Smith, R.415 Stone St.,  
Johnstown, PA 15906.



FOR SALE: ON 911025  
 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
 I have a Sinclair ZX81 with  
 64K Memotech RAM, enhanced  
 keyboard and 300 baud Byte-Back  
 modem. I also have a TS2068  
 with modem, printer, and  
 Spectrum cartridge, along with  
 a dozen old programs from  
 Quicksilver and the like, for  
 both machines. Both are in  
 working order and excellent  
 condition. Make an offer on the  
 whole kit and kaboodle.  
 Peter Paglia, 8802 Partridge  
 Run, Chapel Hill NC 27516

FOR SALE: ON 911015  
 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
 QL Complete System .....\$80  
 Gold Card for the QL ..... \$500  
 Call Frank Davis H317-473-8031

FOR SALE: ON 911015  
 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
 For the AMIGA 500:  
 Plattinum Scribble..... \$40  
 Deluxe Paint..... \$25  
 Walt Armstrong H407-433-8822

FOR SALE: ON 911010  
 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
 CoCo 1 W/64K AND PRO KYBRD .\$20  
 J&M Controller .....\$65  
 Dual TEAC Disk Drives .....\$80  
 Joysticks .....\$10  
 The whole package with software  
 and manuals: .....\$125  
 CALL TONY SOKOL H708-428-4058

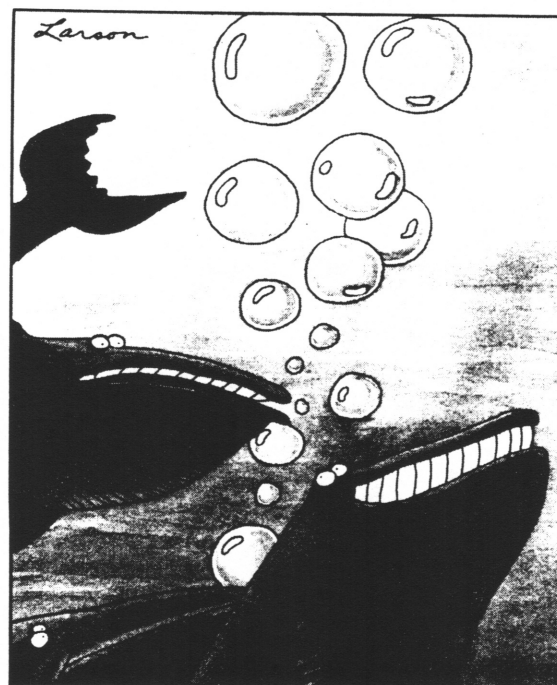
FOR SALE: ON 910912  
 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
 4 - 256K 80 nS SIMMS IBM TYPE  
 1 MEGABYTE TOTAL  
 \$15/ea or \$50 for all 4  
 Call MIKE WARNS  
 W708-982-2107 H708-627-9561

FOR SALE: ON 910426  
 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
 COLOR COMPUTER 3 - DISK DRIVE  
 CM-8 COLOR MONITOR W/PLATFORM  
 SMITH CORONA TP-1 PRINTER  
 JOYSTICK AND 1 DOZ BLANK DISKS  
 SOFTWARE INCLUDES DESK MATE  
 HOME PUBLISHER \$400 OR BEST  
 312-337-3624

FOR SALE: ON 900819  
 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
 IBM PC XT compatible computer.  
 Wugo, made in Taiwan.  
 Completely 100% IBM compatible.  
 640K RAM, 8 Slot Motherboard,  
 large keyboard, 2 half Height  
 floppy drives, one half height  
 20 Meg hard drive,  
 Multi-function card w/serial  
 port and clock. Game card and  
 joystick. Mouse systems mouse,  
 1200 baud modem, RGB Color  
 Monitor, Epsom MX80 w/Grafrax  
 serial and parallel printer  
 (has Hanzon card for Macintosh  
 compatibility too). Tons of  
 applications, documentation and  
 games. Other extras. Whole  
 thing \$950. Call Ray Dubiel  
 W708-576-5862 or H708-991-1987

FOR SALE: ON 900819  
 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
 Apple II GS w/3 disk drives,  
 color monitor, mouse, joystick  
 & many extras. ...best or \$1200  
 708-740-0940 after 5 PM

FOR SALE: ON 900819  
 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
 Computer table and hutch. Exc.  
 condition .....\$50  
 708-913-5439



"Kevin! . . . Was that you?"